REMARKS

By the present response, Applicant has amended claim 1 to further clarify the invention. Claims 1-21 remain pending in the present application.

In the Office Action, the disclosure has been objected to because of informalities. Claims 1-3, 5-8, 10-13, 15-18, 20 and 21 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,804,246 (Petersen et al.) in view of U.S. Patent No. 6,944,138 (Song). Claims 4 and 14 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Petersen et al. in view of U.S. Patent No. 6,628,641 (Strawczynski et al.).

Specification Objections

The disclosure has been objected to because of informalities. Applicants have amended the specification to further clarify the invention and respectfully request that these objections be withdrawn.

35 U.S.C. § 103 Rejections

Claims 1-3, 5-8, 10-13, 15-18, 20 and 21 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Petersen et al. in view of Song. Applicant respectfully traverses these rejections.

Petersen et al. discloses an ATM system handling different AAL protocols where many user channels are multiplexed onto one ATM virtual circuit between two nodes where one of the two nodes is designated as a control node. In the control node, user channels are terminated by

mapping AAL2 packets of the user channels into modified ATM cells having a AAL protocol different than AAL2. The AAL protocol utilized for the modified ATM cells, termed AAL2 prime, requires that AAL2 packets carried in the ATM cell payload be whole packets and that the ATM payload not have an AAL2-type start field. In the AAL2 prime protocol only one whole AAL2 packet is carried per ATM cell payload.

Song discloses an ATM cell processing device for a mobile communication system that includes an ATM interface for receiving ATM cells dispersedly transmitted or distributed over a plurality of physical links and restoring the received ATM cells into one ATM cell stream, and AAL2 cell processor for switching at least one AAL2 packet multiplexed within each ATM cell in the ATM cell stream according to routing information provided during call setup, multiplexing the switched AAL2 packets according to ATM connections, and creating an internal ATM cell having the same format as a received ATM cell, and an ATM switch for switching the internal ATM cell according to the routing information.

Regarding claims 1, 6, 11 and 16, Applicant submits that none of the cited references, taken alone or in any proper combination, disclose suggest or render obvious the limitations in the combination of each of these claims. For example, the Examiner asserts that Petersen et al. discloses an AAL transmitter that generates one or more AAL cells by multiplexing N AAL packets, generated by adding an AAL packet header to an i^{th} data subset of an original user dataset, in Figure 7A, reference character 42-35 and Figure 4. However, these portions merely

disclose a transmitter/receiver board that is included in a base station, and a diagram showing the demultiplexing of an ATM cell having AAL2 protocol into an ATM cell having AAL2 prime protocol where the ATM cell includes an ATM header. This is not an AAL transmitter that generates one or more AAL cells by multiplexing N AAL packets, as recited in the claims of the present application. In contrast, these portions disclose demultiplexing of an ATM cell. Moreover, these portions do not disclose or suggest AAL packets generated by adding an AAL packet header to an i^{th} data subset of an original user data set. These portions do not disclose or suggest an original user data set or generating packets by adding an AAL packet header to an i^{th} data subset of an original data user dataset.

The Examiner further asserts that Petersen et al. discloses an AAL receiver that restores the original user data set by demultiplexing the N AAL packets, in Figure 7A, CHU reference character 42-32, col. 11, lines 23-26, and Figure 11 reference characters 260 and 262. However, these portions merely disclose a cell handling unit where ATM cells with AAL2 packets are demultiplexed into the AAL2 prime protocol (see, col. 12, lines 60-62), that the cell handling unit terminates the AAL2 link, and an ATM demultiplexing function which interfaces to AAL2 prime mapping function. This is not an AAL receiver that restores the original user dataset by demultiplexing the N AAL packets, as recited in the claims of the present application. Petersen et al. merely discloses a cell handling unit that demultiplexed ATM cells with AAL2 packets into

the AAL2 prime protocol. Petersen does not disclose or suggest demultiplexing N AAL packets and thus restoring the original user dataset.

In addition, the Examiner asserts Petersen et al. discloses an AAL2 transmitter that generated one or more of the AAL2 cells by multiplexing M common part sublayer packets, generated by adding a CPS packet header to a j^{th} data subset of the restored original user data set, at Figure 7 reference character 42-32, col. 3, lines 21-25, Figure 11 and Figure 3. However, these potions merely disclose a cell handling unit that terminates an AAL2 link and converts AAL2 channel to an AAL2 prime channel, and that in the multiplexing operation, ATM cells containing AAL2 packets mapped according to the AAL2 prime protocol are received and the AAL2 packets are moved to outgoing ATM cells and mapped according to AAL2. These portions do not disclose or suggest generating one or more AAL2 cells by multiplexing M CPS packets, as recited in the claims of the present application. These portions merely relate to a cell handling unit that converts an AAL2 channel to an AAL2 prime channel making it possible to carry individual AAL2 channel in an ATM-VCC inside the conventional ATM switch. This has nothing to do with multiplexing CPS packets, or an AAL2 transmitter that generates one or more AAL2 cells by multiplexing CPS packets.

The Examiner further asserts that Petersen discloses restoring the original user dataset by demultiplexing the CPS packets, at col. 3, lines 17-21, Figure 11 reference characters 260 and 268, Figure 13B, reference character 13B-13 and Figure 13F, reference character 13F-12.

However, these portions merely disclose an ATM demultiplexing, AAL2 demultiplexing, that the cell handling unit uses ATM cells having AAL2 packets to form ATM cells containing AAL2 packets mapped according to the AAL2 prime protocol, and AAL2 cell demultiplexing. These portions do not disclose or suggest anything related to restoring the original user dataset by demultiplexing the CPS packets, as recited in the claims of the present application. Petersen relates to demultiplexing AAL2 packets in ATM cells bearing AAL2 packets into ATM cells having the AAL2 prime protocol (see, col. 22 lines 12-14). In contrast, the limitations in the claims of the present application relate to demultiplexing CPS packets to restore the original user data set.

Regarding claims 2, 3, 5, 7, 8, 10, 12, 13, 15, 17, 18, 20 and 21, Applicant submits that these claims are dependent on one of independent claims 1, 6, 11 and 16 and, therefore, are patentable at least for the same reasons noted previously regarding these independent claims.

Accordingly, Applicants submits that none of the cited references, taken alone or in any proper combination, disclose suggest or render obvious the limitations in the combination of each of claims 1-3, 5-8, 10-13, 15-18, 20 and 21 of the present application. Applicant respectfully requests that these rejections be withdrawn and that these claims be allowed.

Claims 4 and 14 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Petersen et al in view of Strawczynski et al. Applicant respectfully traverses these rejections and submits that these claims are dependent on one of independent claims 1 and 11 and, therefore,

are patentable at least for the same reasons noted previously regarding these independent claims. Applicant submits that Strawczynski et al does not overcome the substantial defects noted previously regarding Petersen et al.

Accordingly, Applicant submits that none of the cited references, taken alone or in any proper combination, disclose suggest or render obvious the limitations in the combination of each of claims 4 and 14 of the present application. Applicant respectfully request that these rejections be withdrawn and that these claims be allowed.

CONCLUSION

In view of the foregoing amendments and remarks, Applicant submits that claims 1-21 are now in condition for allowance. Accordingly, early allowance of such claims is respectfully requested. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney, Frederick D. Bailey, at the telephone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this, concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,
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